Appl. No 10/614,261
Amdt. Dated Jan. 18, 2006
Reply to Office Action of Oct. 18, 2005

CLAIM AMENDMENTS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Please amend the claims as follows:

Claim 1. (original) An apparatus for controlling the position of a cursor marker on a computer monitor screen and selecting the computer action such as on-screen virtual button pushing, icon positioning, and file actions such as opening or closing, comprising:

a. a headset based on the computer operator's head having a laser speckle or interference pattern generator affixed there onto projecting a laser speckle pattern generally onto the computer screen

b. a microphone with wireless transmitter connected to the headset

c. a small battery power source for the speckle pattern generating laser and wireless transmitter housed in the headset

d. a solid state optical mouse sensor affixed to the side of the computer screen and positioned such that it receives the speckle or interference pattern

e. a wireless receiver conveying the spoken instructions of the operator into the microphone port of the computer.

Claim 2. (cancel)

Claim 3. (currently amended) The ~~computer~~ apparatus of ~~claim 2~~ claim 1 where said computer is programmed to understand through word recognition software,

spoken audible commands corresponding to computer commands normally entered on the keyboard or launched by a virtual button push with a computer mouse button.

Claim 4. (original) The apparatus of claim 1 where said headset moves with the operator's head movement.

Claim 5. (original) The apparatus of claim 1 where said laser speckle pattern generator is comprised of a low power solid state laser projecting a beam into a fiber optic bundle or a holographic plate to produce a speckle pattern with motion exactly correlated to the motion of the operator's head.

Claim 6. (original) The apparatus of claim 1 where said microphone communicates the spoken commands by the computer operator to said wireless transmitter of the apparatus of claim 1.

Claim 7. (cancel)

Claim 8. (cancel)

Claim 9. (currently amended) The apparatus of claim 1 where said solid state optical mouse sensor ~~may essentially be of the type manufactured by Agilent Technologies and designated as HDNS-2000.~~ is of the two-dimensional optical pattern autocorrelator type.

Claim 10. (cancel)

Claim 11. (cancel)

Claim 12. (original) The solid state sensor of claim 10 where said sensor has the lens and aperture removed so as to permit the speckle or interference pattern to impinge on the complete sensor surface.

Claim 13. (currently amended) The apparatus of claim 1 where said wireless transmitter and wireless receiver ~~may be of the Bluetooth type~~ are Bluetooth components.

Claim 14. (original) A method for controlling the position of a cursor marker on a computer monitor screen and selecting the computer action such as on-screen virtual button pushing, icon positioning, and file action, such as opening or closing, comprised of the following steps:

a. moving a headset with corresponding head movement

b. moving a corresponding laser produced speckle pattern across the sensor surface of a properly prepared solid state optical mouse sensor

c. controlling the motion of the computer cursor with the output of the solid state optical mouse sensor

d. speaking computer commands into a microphone attached to the headset

e. transmitting the spoken commands to a wireless receiver

f. converting the wireless transmitted signals into audio signal inputs to the computer

g. understanding the spoken command by the computer using voice recognition programming.

Claim 15. (original) The method of claim 14 where said headset moving corresponds to desired movement of the cursor on the computer monitor screen.

Claim 16. (original) The method of claim 14 where said computer cursor motion controlling is accomplished by the process characteristic of the solid state optical

mouse sensor except that the left-right designation must be reversed electronically or in computer software.

Claim 17. (currently amended) The method of claim 14 where said spoken command understanding is done by conventional voice recognition ~~software such as found in the Microsoft XP operating system.~~ software.

Claims 18-25. (withdrawn)